



SEQUENCE LISTING

<110> Jeffrey John Gorman

<120> Viral Peptides with Structural Homology to Protein G of  
Respiratory Syncytial Virus

<130> 273402004000

<140> US 09/202,035

<141> 1998-12-17

<150> PCT/AU97/00351

<151> 1997-06-04

<150> AU PO 0265

<151> 1996-06-05

<160> 44

<170> PatentIn Ver. 2.1

<210> 1

<211> 49

<212> PRT

<213> respiratory syncytial virus

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Lys Gln Arg Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His  
1 5 10 15  
Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
20 25 30  
Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
Lys

<210> 2

<211> 49

<212> PRT

<213> respiratory syncytial virus

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Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn Asp Phe His  
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Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
20 25 30  
Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
Lys

<210> 3

<211> 49

<212> PRT

<213> respiratory syncytial virus

<400> 3

Lys Gln Arg Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His  
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Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
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<210> 4

<211> 49

<212> PRT

<213> respiratory syncytial virus

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Lys Gln His Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His  
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20 25 30  
Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
Lys

<210> 5

<211> 49

<212> PRT

<213> respiratory syncytial virus

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Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn Asp Phe His  
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Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
20 25 30  
Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
Lys

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<211> 49

<212> PRT

<213> respiratory syncytial virus

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Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn Asp Phe His  
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20 25 30  
Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
Lys

<210> 7

<211> 49

<212> PRT  
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20 25 30  
Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
Lys

<210> 8

<211> 49

<212> PRT

<213> respiratory syncytial virus

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Lys Gln Arg Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His  
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Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
20 25 30  
Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
Arg

<210> 9

<211> 49

<212> PRT

<213> respiratory syncytial virus

<400> 9

Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp Asp Tyr His  
1 5 10 15  
Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly Asn Asn Gln  
20 25 30  
Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys Pro Lys Lys  
35 40 45  
Lys

<210> 10

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<213> respiratory syncytial virus

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Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly Asn Asn Gln  
20 25 30  
Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys Pro Lys Lys  
35 40 45  
Lys

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 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly Asn Asn Gln  
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 35 40 45  
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<210> 12  
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 1 5 10 15  
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 20 25 30  
 Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys Pro Lys Lys  
 35 40 45  
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<210> 13  
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 Lys Pro Arg Leu Lys Asn Pro Pro Lys Lys Pro Lys Asp Asp Tyr His  
 1 5 10 15  
 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly Asn Asn Gln  
 20 25 30  
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 35 40 45  
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 20 25 30  
 Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys Pro Lys Lys

35 40 45

Lys

<210> 15  
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 35 40 45  
 Lys

<210> 16  
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E 13

<400> 16  
 Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp His Asn Asn  
 1 5 10 15  
 Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu Gly Asn Leu  
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 Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala Pro Ser Arg  
 35 40 45  
 Ala

<210> 17  
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<400> 17  
 Lys Gln Arg Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His  
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 20 25 30  
 Thr Arg Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
 35 40 45  
 Lys

<210> 18  
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<400> 18  
 Lys Gln Arg Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His  
 1 5 10 15

Phe Glu Val Ser Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
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 Thr Cys Trp Ala Ile Arg Lys Arg Thr Pro Asn Lys Lys Pro Gly Lys  
           35                  40                  45  
 Lys

<210> 19  
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 <222> (22)..(36)  
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 <222> (25)..(31)

<400> 19

Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His Phe Glu Val  
   1                  5                  10                  15  
 Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp  
           20                  25                  30  
 Ala Ile Cys Lys  
           35

<210> 20  
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 <212> PRT  
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<400> 20

Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His Phe Glu Val  
   1                  5                  10                  15  
 Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp  
           20                  25                  30  
 Ala Ile Cys Lys  
           35

<210> 21  
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 <212> PRT  
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 <222> (5)  
 <223> to residue 3 of sequence ID 22  
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Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp

1 5 10 15

<210> 22  
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<221> DISULFID  
<222> (3)  
<223> to residue 5 of sequence ID 21

<400> 22  
Ala Ile Cys Lys  
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<210> 23  
<211> 15  
<212> PRT  
<213> respiratory syncytial virus

9.13 <400> 23  
Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp  
1 5 10 15

<210> 24  
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1 5 10 15  
Ile Cys Lys

<210> 25  
<211> 19  
<212> PRT  
<213> respiratory syncytial virus

<400> 25  
Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala  
1 5 10 15  
Ile Cys Lys

<210> 26  
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<400> 26  
Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala  
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<210> 27  
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<400> 27  
Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
1 5 10 15

<210> 28  
<211> 11  
<212> PRT  
<213> respiratory syncytial virus  
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<223> to residue 3 of sequence ID 29  
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Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp  
1 5 10

<210> 29  
<211> 4  
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<223> to residue 1 of sequence ID 28

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Ala Ile Cys Lys  
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 <220>  
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 1 5 10 15

<210> 31  
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 <223> to residue 5 of sequence ID 30

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 Ala Ile Cys Lys  
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<210> 32  
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<400> 32  
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 1 5 10 15  
 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
 20 25 30  
 Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
 35 40 45  
 Lys

<210> 33  
 <211> 49  
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<400> 33  
 Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp Asp Tyr His  
 1 5 10 15  
 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly Asn Asn Gln  
 20 25 30  
 Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys Pro Lys Lys  
 35 40 45  
 Lys

<210> 34

<211> 49  
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<400> 34  
Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp His Asn Asn  
1 5 10 15  
Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu Gly Asn Leu  
20 25 30  
Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala Pro Ser Arg  
35 40 45  
Ala

<210> 35  
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Ser Ser Gln Lys Ser Asn Pro Ser Glu Ile Gln Gln Asp Tyr Ser Asp  
1 5 10 15  
Phe Gln Ile Leu Pro Tyr Val Pro Cys Asn Ile Cys Glu Gly Asp Ser  
20 25 30  
Ala Cys Leu Ser Leu Cys Gln Asp Arg Ser Glu Ser Ile Leu Asp Lys  
35 40 45  
Ala

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<210> 36  
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<223> acetylation  
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<221> SITE  
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<223> amidation

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Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
20 25 30  
Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
35 40 45  
Lys

<210> 37  
<211> 42  
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 <223> amidation

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 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
                     20                    25                    30  
 Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro  
                     35                    40

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 <223> amidation

4 13  
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 Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro  
                     20                    25                    30  
 Gly Lys Lys  
                     35

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 <222> (29)  
 <223> amidation

<400> 39  
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 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly  
                     20                    25

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 derivatisation  
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 <223> amidation

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 Lys Gln Arg Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His  
 1 5 10 15  
 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
 20 25 30  
 Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
 35 40 45

Lys

<210> 41  
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 derivatisation  
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 <221> SITE  
 <222> (35)  
 <223> amidation

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 20 25 30  
 Gly Lys Lys  
 35

<210> 42  
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<220>  
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 <222> (49)  
 <223> amidation

<400> 42  
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 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
                     20                    25                    30  
 Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
                     35                    40                    45  
 Lys

<210> 43  
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 <220>  
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 <222> (49)  
 <223> amidation

*E 13*  
*concl.*  
 <400> 43  
 Lys Gln Arg Gln Asn Lys Pro Pro Ser Lys Pro Asn Asn Asp Phe His  
     1                    5                    10                    15  
 Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser Asn Asn Pro  
                     20                    25                    30  
 Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys Pro Gly Lys  
                     35                    40                    45  
 Lys

<210> 44  
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 <212> PRT  
 <213> respiratory syncytial virus  
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       derivatisation

<400> 44  
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OK, enter it  
10/01/2003  
BLC

	150	160	170	180	190	195
1	AcKQRQNKPPSKPNNDFHFEVFNFP	CSINNPT	CWAI	CKRIPNKKPGKKAmide		
2	AcKQRQNKPPSKPNNDFHFEVFNFP	CSINNPT	CWAI	CKRIPAmide		
3	AcFHFEVFNFP	CSINNPT	CWAI	CKRIPNKKPGKKAmide		
4	AcKQRQNKPPSKPNNDFHFEVFNFP	CSINNPT	C <sup>G</sup> Amide			
5	fitcKQRQNKPPSKPNNDFHFEVFNFP	CSINNPT	CWAI	CKRIPNKKPGKKAmide		
6	fitcFHFEVFNFP	CSINNPT	CWAI	CKRIPNKKPGKKAmide		
7	bbKQRQNKPPSKPNNDFHFEVFNFP	CSINNPT	CWAI	CKRIPNKKPGKKAmide		
8	biotKQRQNKPPSKPNNDFHFEVFNFP	CSINNPT	CWAI	CKRIPNKKPGKKAmide		
9	fitcVTRQRRARNGASRS					

FIGURE 12